

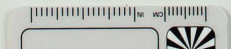
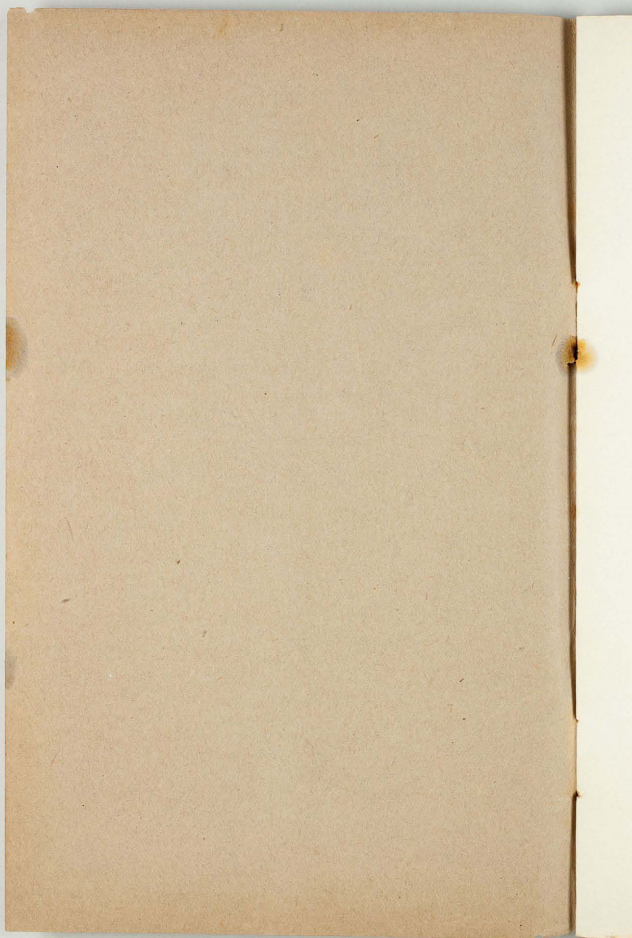
AIM Ann Report
1910 to 1911

ANNUAL REPORT
OF THE
AUCKLAND INSTITUTE
AND
MUSEUM
FOR
1910-1911.

ADOPTED AT THE ANNUAL MEETING
HELD FEBRUARY 27TH, 1911.

AUCKLAND:
Wilson & Horton, General Printers, Queen and Wyndham Streets.

AIM Ann Report
1910 to 1911



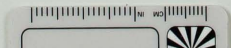
AIM Ann Report
1910 to 1911

ANNUAL REPORT
OF THE
AUCKLAND INSTITUTE
AND
MUSEUM
FOR
1910-1911.

ADOPTED AT THE ANNUAL MEETING
HELD FEBRUARY 27TH, 1911.

AUCKLAND:
Wilson & Horton, General Printers, Queen and Wyndham Streets.

AIM Ann Report
1910 to 1911



OFFICERS
OF THE
AUCKLAND INSTITUTE.

President :

J. H. UPTON, Esq.

Vice-Presidents :

DR. R. BRIFFAULT.

PROF. C. W. EGERTON, M.A.

Council :

BAGNALL, L. J.

POND, J. A., F.C.S.

BROWN, PROF. F. D., M.A.

REID, J.

MILLER, E. V.

ROBERTON, E., M.D.

PEACOCK, T.

SEGAR, PROF. H. W., M.A.

PETRIE, D., M.A.

STEWART, J., C.E.

THOMAS, PROF. A. P. W., M.A., F.L.S.

Trustees :

BROWN, PROF. F. D., M.A.

REID, J.

PEACOCK, T.

STEWART, J., C.E.

UPTON, J. H.

Secretary and Curator :

T. F. CHEESEMAN, F.L.S., F.Z.S.

Assistant and Preparator of Specimens :

L. T. GRIFFIN, F.Z.S.

Auditor :

S. GRAY.

The following
Periodicals and Publications
of Societies

are subscribed to by the Institute:

NATURE.
THE PHILOSOPHICAL MAGAZINE.
THE AMERICAN JOURNAL OF SCIENCE.
AMERICAN CHEMICAL JOURNAL.
THE ELECTRICIAN.
THE PHYSICAL REVIEW.
ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE.
ANNALEN DER PHYSIK.
COMPTES RENDUS DES SEANCES DE L'ACADEMIE DES SCIENCES.
ANNALS AND MAGAZINE OF NATURAL HISTORY.
QUARTERLY JOURNAL OF MICROSCOPICAL SCIENCE.
ANNALS OF BOTANY.
THE BOTANICAL GAZETTE.
ENGLE'S BOTANICAL YEAR BOOK.
THE GARDENER'S CHRONICLE.
THE GEOLOGICAL MAGAZINE.
ZEITSCHRIFT DER DEUTSCHEN GEOLOGISCHEN GESELLSCHAFT.
SCIENCE PROGRESS.
THE ECONOMIC JOURNAL.
THE LANCET.
MIND.

TRANSACTIONS AND PROCEEDINGS OF THE ROYAL SOCIETY.
TRANSACTIONS AND PROCEEDINGS OF THE ZOOLOGICAL SOCIETY.
THE ZOOLOGICAL RECORD.
PUBLICATIONS OF THE RAY SOCIETY.
JOURNAL OF THE CHEMICAL SOCIETY.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY.
QUARTERLY JOURNAL OF THE GEOLOGICAL SOCIETY.
JOURNAL OF THE ROYAL AGRICULTURAL SOCIETY.
THE GEOGRAPHICAL JOURNAL.
REPORT OF THE BRITISH ASSOCIATION.

Report of the Council.

As provided for by the constitution of the Society, the Council have now to present to the members their Forty-third Annual Report on the financial and general condition of the Institute, and the progress it has made during the year.

MEMBERS.—It is satisfactory to announce that 32 new members have been elected since the date of the last annual meeting—a number considerably above the average. On the other hand, fourteen names have been removed from the roll—three from death, seven from resignation, and four from non-payment of subscription for more than two consecutive years. There is thus a net increase of 18, the total number on the roll at the present time being 204, of whom 12 are life members and 192 annual subscribers. The Council trust that the increase in the membership will be maintained in coming years. They would point out that the chief aim of the Institute—the maintenance of a free public Museum for the instruction and recreation of the people of Auckland—is one which appeals to all classes, and which should command a liberal amount of support.

FINANCE.—The detailed balance-sheets appended to the Report will make the financial position of the Institute intelligible to all who inspect them, but it may be useful to give a brief synopsis here. The total revenue credited to the Working Account, excluding the balance in hand at the commencement of the year, has been £1,170 11s. Last year the amount was £1,195 0s 9d, so that there has been a decrease of £24 9s 9d. Examining the chief heads of the balance-sheet, it will be seen that the receipts from the invested funds of the Costley Bequest have been £402 18s 8d, as against £396 15s for the previous year. The Museum Endowment has yielded £424 15s 2d, the amount for 1909-1910 being £502 8s; but the amounts for that period were swollen through the payment of some arrears of rent and interest which should have been credited during the previous twelve months. The members' subscriptions have realised £191 2s, showing an increase of £17 17s. The total expenditure has been larger than usual, amounting to £1,283 9s, as against £1,209 11s 8d for 1909-10. The increase is principally due to three items—the enlarged expenditure over the library, caused by the publication of the library catalogue, presently to be referred to; the cost of certain show cases indispensably required in the Museum; and some unavoidable repairs to

AIM Ann Report 1910 to 1911

the roof and other portions of the building. The balance in hand at the present time amounts to £144 1s 11d. There are no changes of importance respecting the invested funds of the Institute, the total amount of which, £16,379 4s 5d, only very slightly exceeds that announced last year.

MEETINGS.—Nine meetings have been held during the year, at which the following lectures or papers were read:—

1. Halley's Comet.—By PROF. H. W. SEGAR.
2. Presidential Address: The Nature of Life.—By DR. R. BRIFFAULT.
3. Ferro-Concrete Structures.—By S. E. LAMB, B.Sc.
4. Wireless Telephony.—By A. WYLLIE, M.I.C.E.
5. The Ultra-microscope and What It Reveals.—By E. V. MILLER.
6. The Effects of the Disappearance of the New Zealand Bush.—By ARCHDEACON WALSH.
7. Huxley: A Criticism and an Appreciation.—By the REV. D. D. SCOTT.
8. Maori Rock Engravings in the Kaipara District.—By R. BUDDLE.
9. Maori Methods of Shark-fishing and Pigeon-snaring Fifty Years Ago.—By R. H. MATTHEWS.
10. The Economic Aspect of the Sugar Beet Industry in New Zealand.—By S. GRAY.
11. Descriptions of New Genera and Species of Coleoptera.—By MAJOR T. BROWN.
12. Additions to the Coleopterous Fauna of the Chatham Islands.—By MAJOR T. BROWN.
13. Descriptions of Some Native Phanerogams.—By D. PETRIE, M.A.
14. Contributions to a Knowledge of the New Zealand Flora, No. IV.—By T. F. CHEESEMAN, F.L.S.
15. Some Recently-discovered Additions to the New Zealand Flora.—By T. F. CHEESEMAN.
16. On the Flora of the Mongonui County.—By H. CARSE.
17. The Relation of Scenery to Geology.—By PROF. E. W. SKEATS, D.Sc.

Most of the above papers have been forwarded to the New Zealand Institute, with the view of publication in the next volume of Transactions. Volume 42 of the Transactions, containing the papers read before the incorporated Societies during the year 1909, has been issued and distributed among the members.

In last year's Report the Council hinted that it would probably be necessary to make temporary arrangements for holding the meetings outside the Museum Buildings in the future. The selection of a hall was by no means an easy task; but after full consideration it was decided to engage St. Andrew's Hall, in Symonds Street, for the purpose. On the whole, the choice has proved satisfactory, although it is much to be regretted that want of space should prevent the meetings from being held within the Institute's own buildings. The Council trust that this end may be achieved at no distant date.

MUSEUM.—With the exception of a few days required for cleaning and rearrangement, the Museum has been open to the public daily throughout the year. The hours of admission have been, as in former years, from 10 a.m. to 5 p.m. on week-days, and from 2 to 5 p.m. on Sundays. The register kept by the janitor on Sundays shows that 17,311 visitors entered the building on that day, being an average of 333 for each Sunday. The greatest attendance was 599 on July 31st, the smallest 65 on May 8. On the seven chief holidays of the year the number of visitors was 2993, or an average of 427. The number of visitors on ordinary week-days is certainly not less than 180, which would make a total of 55,080. Adding to this number the attendance on Sundays and holidays, we have 75,384 as the approximate total number of visitors during the whole year. This is only very slightly under the estimated attendance for the previous year, which was 75,957.

The progress made by the Museum during the year must be considered as satisfactory. Many important additions have been received, as will be seen from the appended list, and most of these have been placed on exhibition. Much time and labour have been devoted to the task of preparing and mounting the specimens intended for public view; and through the efforts of Mr. Griffin, who has charge of this branch of the Society's work, the general appearance of the collections, and their value for educational purposes, have been much enhanced.

In last year's Report it was stated that a commencement had been made in the formation of a collection of New Zealand food-fishes. This object has been kept steadily in view, and in order to obtain material special expeditions have been made to the Bay of Islands, the Great Barrier Island, and to various parts of the Hauraki Gulf. Altogether 68 specimens have been carefully mounted and painted from life, and it is intended to materially extend the collection during the coming autumn. Another novel addition consists in the preparation of a series of gelatine casts of the Tuatara lizard and other New Zealand Reptilia. This mode of reproducing a specimen has many advantages over plaster,

especially in the reduction of the number of piece moulds required, in the absence of fragility, and in its lightness and flexibility. If carefully painted from nature, such casts present a life-like appearance, not easy to attain in other material. Among other work performed during the year may be mentioned the complete rearrangement of the collection of New Zealand birds, and the addition thereto of several freshly-prepared specimens.

Other noteworthy additions are as follows:—A fine specimen of the rare Haast's Kiwi, obtained through the good offices of the Tourist Department; a very fair example of the White Crane, now nearly extinct in New Zealand, purchased from Mr. W. Townson; a specimen of *Sula fusca*, shot at the Bay of Islands; and an example of the widely-spread water-snake *Hydrus platurus*, stranded on the ocean beach, west of Helensville. This last specimen came ashore alive, and was promptly forwarded to the Museum by the finder, Mr. E. Smith. Mention must also be made of three fine specimens of the Robber Crab (*Birgus latro*), obtained on Caroline Island, north of Tahiti, and presented by Mr. J. L. Young. These have been mounted so as to show the tree-climbing habits of the species, a peculiarity hardly known in other forms of the Crustacea.

Another important addition consists of a large and varied collection of butterflies, presented by Mr. H. Dobbie. The greater portion of the collection was formed by Mr. Dobbie during a lengthened visit made to tropical South Africa a few years ago; another part consists of species forwarded by the British Museum to Mr. Dobbie in exchange for specimens from South Africa. To these have been added a considerable number of species obtained by the Museum from various sources during the last eight or ten years, including species from China, Indo-Malaya, New Guinea, etc. Few objects of natural history are more attractive than a good collection of butterflies, and Mr. Dobbie's collection is thus particularly welcome. It should be mentioned that the showcase in which the collection is displayed has been presented to the Museum by the subscriptions of a few members.

A considerable number of improvements have been made in the arrangement of the Maori collections. Among the objects which have been altogether rearranged are those which can be described as fishing materials, such as fish-hooks, fishing lines, fishing weights, nets, mussel dredges, eel-baskets, etc. The collection of canoe balers has been remounted, as also a good series of bird snares, etc. Among the new additions the following may be particularised:—A large river canoe, obtained by purchase in the Upper Thames district; two canoe-memorials from the Lower

Waikato; a series of carvings in pumice stone, found near the north end of Lake Rotoehu, presented by Mr. V. J. Blake; two remarkable carvings in pumice, presented by Mr. W. J. Benner and Mr. J. Griffin respectively; a large and highly polished stone axe, found near Ngaruawahia, forwarded by Mr. H. Tarver; an elaborately carved step of a ko, or spade, some wooden flax-beaters, a carved fork, and various other articles, presented by Mr. G. Graham; a very interesting series of seventeen articles in greenstone, ordinary stone, and bone, purchased from Mr. W. Townson. Other donations are specified in the appendix.

In foreign ethnology by far the most valuable addition is a series of over 500 articles from Japan, including a few from China, deposited by Mr. H. S. Dudley. The collection includes many fine bronzes, swords, daggers, and other articles in metal; numerous carvings in wood and ivory; many varied specimens of pottery, porcelain, and cloisonne; specimens of lacquer-work; of silks embroidered with gold and silver; and other articles too numerous to mention. This collection is the result of Mr. Dudley's personal efforts during three visits to Japan, and the specimens have been carefully and judiciously selected. The Museum was so poorly supplied with ethnographical material from China and Japan that Mr. Dudley's deposit was a most welcome addition, and its presence in the Museum has attracted great numbers of visitors.

LIBRARY.—The Mackelvie Library Bequest has yielded its usual revenue during the year, and this, in compliance with the terms of the bequest, has been expended solely in the purchase of books. Two consignments have been obtained from London, numbering about 125 volumes, and a full list of these will be found in the appendix to the Report. In addition to the purchase of books, a large expenditure has been incurred in binding scientific journals, publications of societies, etc., about 85 volumes having been added to the Library from that source alone. The usual presentations and exchanges have been received from foreign societies, in addition to several donations from private individuals.

In last year's Report it was stated that the Council had decided to proceed with the preparation of a printed catalogue of the Library. The work has been completed during the year, and copies of the catalogue can now be obtained from the Secretary at the price of five shillings each. The usefulness of the catalogue cannot be questioned; but so far the sale of copies has hardly equalled the anticipations of the Council. It should be mentioned that purchasers of the catalogue will be supplied each year with a printed list of additions to the Library.

AIM Ann Report 1910 to 1911

10

In concluding the Report, the Council have once more to thank the members for the assistance they have given in furthering the objects of the Society. They have also to express their gratification at the countenance and sympathy evinced by the general public, and particularly at the increasing number of donations to the Museum forwarded by country residents. In many respects the steady progress of the Institute and Museum is a matter for congratulation. It is true that the slender means available will not permit of rapid or startling advances; but the Council can fairly claim that in carrying out the work of maintaining a free public Museum and scientific Library they are discharging a duty of no small importance, and one which entitles them to the sympathetic assistance of the whole community.



The Treasurer in Account with the Auckland Institute and Museum Trust Board.

WORKING ACCOUNT.

February 22, 1910, to February 22, 1911.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 22, 1910	256	19	11	Books, Periodicals, Binding, Printing of Library Catalogue	196	2	6
Annual Subscriptions	191	2	0	Additions to Museum	47	10	0
Special Subscriptions for Museum Purchases	21	3	0	Museum Requisites	52	12	9
Interest from Costley Bequest	402	18	8	Salaries	669	8	8
Rents and Interest transferred from Museum Endowment Account	424	15	2	Printing, Advertising, Insurance, Gas, Cleaning, Stationery, Postages, Miscellaneous Expenses	153	1	8
Interest transferred from Mackechnie Library Bequest Account	102	10	0	Repairs to Buildings, Show-cases and Fittings	90	13	11
Interest from Nathan Bequest	6	0	0	Land Tax	36	12	6
Interest from Life Subscription Account	11	7	9	Life Subscriptions transferred to Savings Bank	10	10	0
Sale of Library Catalogue	10	6	0	Hire of St. Andrew's Hall	7	10	0
Miscellaneous Receipts	0	8	5	Type-writing Machine	12	3	0
				Miscellaneous Payments	2	4	0
				Balance in the Bank of New Zealand, February 22, 1911	144	1	11
	£1,427	10	11		£1,427	10	11

T. F. CHEESEMAN, Treasurer.

February 24, 1911.

Examined and found correct,

W. GORRIE, Auditor.

The Treasurer in Account with the Auckland Institute and Museum Trust Board.

MUSEUM ENDOWMENT ACCOUNT.

February 22, 1910, to February 22, 1911.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 22, 1910	2	4	1	Transferred to Working Account	424	15	2
Rents of Endowments	97	9	9	Bank Charges	0	10	0
Interest on Investments... ..	325	15	2	Balance in Bank of New Zealand, February 22, 1911	0	3	10
	£425	9	0		£425	9	0

MACKECHNIE LIBRARY BEQUEST ACCOUNT.

February 22, 1910, to February 22, 1911.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 22, 1910	5	15	0	Transferred to Working Account for Purchase of Books	102	10	0
Interest on Investments... ..	102	10	0	Bank Charges	0	10	0
	£108	5	0	Balance in the Bank of New Zealand, February 22, 1911	5	5	0
					£108	5	0

T. F. CHEESEMAN, Treasurer.

February 24, 1911.

Examined and found correct,

W. GORRIE, Auditor.

Investments of the Auckland Institute.

	£	s.	d.	£	s.	d.
1.—COSTLEY BEQUEST—						
On Mortgage on Freehold Security at 5½ per cent. ...	4,000	0	0			
New Zealand Government 4 per cent. Debentures ...	1,900	0	0			
On Mortgage on Freehold Security at 5½ per cent. ...	1,200	0	0			
On Mortgage on Freehold Security at 5½ per cent. ...	500	0	0			
On Mortgage on Freehold Security at 5½ per cent. ...	100	0	0			
				7,700	0	0
Invested in site of Museum ...	2,500	0	0			
Expended in Erection of Maori Hall ...	1,500	0	0			
Expended in Showcases and Fittings ...	450	0	0			
				4,450	0	0
				12,150	0	0
II.—MUSEUM ENDOWMENT—						
On Mortgage at 5 per cent. ...	1,300	0	0			
On Mortgage at 5 per cent. ...	1,000	0	0			
On Mortgage at 5 per cent. ...	650	0	0			
Auckland Gas Co. Debentures ...	600	0	0			
Dunedin Corporation 4½ per cent. Debentures ...	1,000	0	0			
On Mortgage at 6 per cent. ...	425	0	0			
On Mortgage at 5½ per cent. ...	420	0	0			
On Mortgage at 6 per cent. ...	400	0	0			
On Mortgage at 6 per cent. ...	350	0	0			
On Deposit with Auckland Gas Co. ...	200	0	0			
Waiting Investment ...	17	4	3			
				6,362	4	3
III.—MACKECHNIE LIBRARY BEQUEST—						
Harbour Board 4½ per cent. Debentures ...	1,000	0	0			
On Mortgage at 5½ per cent. ...	500	0	0			
On Mortgage at 6 per cent. ...	500	0	0			
				2,000	0	0
IV.—NATHAN BEQUEST—						
On Mortgage at 6 per cent. ...				100	0	0
V.—LIFE SUBSCRIPTION ACCOUNT—						
On Mortgage at 6 per cent. ...	150	0	0			
On Deposit in Auckland Savings Bank ...	67	0	0			
				217	0	0
Total ...				£20,829	4	3
Proportion Bearing Interest ...				£16,379	4	3

T. F. CHEESEMAM, Treasurer.

Deeds for Securities and Receipts for Debentures lodged with Bank of New Zealand examined and found in order.

W. GORRIE, Auditor.

Form of Bequest.

*I give and bequeath to the Institution
known as the Auckland Institute and Museum
the sum of £ free of succession or
estate duty, to be applicable for the general
purposes of such Institution. And I declare
that the receipt of the Treasurer or the proper
officer for the time being of such Institution
shall be a sufficient discharge for the same.*

Additions and Donations

TO THE

Library and Museum.

- Parliamentary Papers and Reports; New Zealand Hansard for 1910; New Zealand Official Year Book; Annual Report and other Publications of the Department of Agriculture; New Zealand Statistics and other Statistical Returns:—The New Zealand Government.
- Transactions of the New Zealand Institute, Vol 42; Proceedings of the Institute for 1909-1910; Bulletins Nos. 1 and 2:—The New Zealand Institute.
- Bulletins 9, 10, and 11 of the Geological Survey:—The Director of the Geological Survey.
- Journal of the Polynesian Society, parts of Vols. 18 and 19:—The Society.
- Report of the Dominion Laboratory for 1909:—The Laboratory.
- Journal of the Linnean Society of New South Wales, parts of Vols. 34 and 35:—The Society.
- Annual Report of the New South Wales Fishery Board; Stead's Review of the Fisheries of New South Wales:—The Fishery Board of New South Wales.
- Journal of the Royal Society of New South Wales, Vols. 42, 43, part 44:—The Society.
- Records of the Australian Museums, parts of Vol. 8:—The Museum.
- Proceedings of the Australasian Association, Vol 12:—The Association.
- Transactions of the Royal Society of Victoria, parts of Vol. 5:—The Society.
- Memoirs of the National Museum, Melbourne, part 3:—The Museum.
- The Australian Naturalist for 1909-1910:—The Editor.
- Transactions and Proceedings of the Royal Society of South Australia, Vols. 33 and 34:—The Society.
- Transactions of the Royal Society of Queensland for 1909-1910:—The Society.
- Bulletins of the Commonwealth Bureau of Meteorology, Nos. 1-5:—The Bureau.
- United States Consular Reports:—The Secretary of State, United States.
- Ainslie's Cowpea Curculio; Foster's Nut-feeding Habits of the Codlin Moth; Quaintance's San Jose Scale and its Control; Wildermuth's Clover-root Curculio; Phillips' Bees; Snodgrass' Anatomy of the Honey Bee; Parker's Hop-flea Beetle; Dean's Sorghum Midge; Morgan's Control of Tobacco Insects; Vickery's Corn-root Aphis; Hyslop's Smoky Crane-fly; Marsh's Yellow-bear Caterpillar; Johnston and Hammar's Grape Root-worm; Cooke's Migration of North American Shore Birds; Hopkin's Contributions to a Monograph of Pissodes; Lantz's Raising Deer and other Large Animals in the United States; Quaintance's One-spray Method; Hammar's Life History of the Codlin Moth in Pennsylvania;

AIM Ann Report 1910 to 1911

- Chittenden's Oak Pruner; Chittenden's Cucumber Beetles; Snyder's Damage to Telegraph Poles by Wood-boring Insects; Foster's Control of the Pear Thrips; North American Fauna, No. 31; Various Reports and Circulars:—The Department of Agriculture, U.S.A.
- Report of the United States National Museum for 1909; Proceedings of the United States National Museum, Vol 36; Various Bulletins; Contributions to the U.S. National Herbarium, parts of Vols. 13 and 14; Publications of the U.S. Bureau of Ethnology:—The Smithsonian Institution.
- Publications of the University of California, Anthropology and Botany:—The University.
- Publications of the Bishop Museum, Honolulu:—The Museum.
- Annals of the Observatory of Harvard College, various parts:—The Observatory.
- Report of the Geological Survey of Canada; Maps of Canada's Northland; Ell's Report on the Oil Shales of New Brunswick and Nova Scotia; Camsell's Geology and Ore Deposits of the Hedley Mining District; Adams' and Barlow's Geology of Haliburton and Bancroft; Report on Conrad and Whitehorse Mining District; Dresser's Discovery of Gold at Megantic; Camsell's Report on the Similkameen District; Collins' Geological Reconnaissance between Lake Nipigon and Clay Lake; Wait's Report on Analyses of Ores, etc.; Haanel's Recent Advances in the Construction of Electric Furnaces; Various Minor Reports:—The Geological Survey of Canada.
- Publications of the Philippine Weather Bureau for 1909-1910:—The Bureau.
- Journal of the Royal Colonial Institute, Vol 41:—The Institute.
- The Museums' Journal for 1909-1910:—The Museums' Association.
- Symon's Monthly Meteorological Magazine:—The Editor.
- Icones Plantarum, parts of Vol. 10; Kew Bulletin for 1910:—The Director, Kew.
- Guide to the Collections of the Dublin Museum of Science and Art, various parts:—The Museum.
- Annals of the Royal Observatory of Edinburgh, Vol. 3:—The Observatory.
- Lockyer's Surface Air Circulation in the Southern Hemisphere:—The Solar Physics Observatory.
- Hornell's Report on the Marine Zoology of Okhamandal:—J. Hornell.
- Durning-Lawrence's Bacon is Shakespear:—The Author.
- A Library of Peace and War:—The Publishers.
- Bucknill's Ornithology of Cyprus:—The Author.
- Publications of the Deutsche Seewarte:—The Seewarte.
- Garstin's Report on the Basins of the Upper Nile:—Professor F. D. Brown.
- Pitt Rivers' Antique Works of Art from Great Benin; Guide to the Early Printed Books, etc., in the Auckland Public Library:—H. Shaw.
- Matthew Fowlds and other Fenwick Worthies:—Hon. G. Fowlds.
- Hawaiki, the Whence of the Maori, 3rd edition; History of the Wars of the Maoris in the North; Various Pamphlets:—S. Percy Smith.
- Old New Zealand Government Gazettes; Old Auckland Newspapers; Old New South Wales Newspapers, 1840-1843; Illustration of Native Meeting at Remuera, 1844; Various Other Papers: R. Hall.
- Bay of Islands Observer for October 6, 1842:—Miss Hargreaves.
- Two Water-colour Drawings of Early Auckland:—H. Arden.
- Water-colour Drawing of Queen Street, Auckland, in 1853:—J. Graham.

BOOKS PURCHASED.

Borcher's Electric Furnaces.
Garrett's Periodic Law.
Combarieu's Music.
Edridge Green's Colour Blindness.
McEwan's Guide to the Starry Heavens.
Winkler's Technical Gas Analysis.
Tutton's Crystalline Structure.
Armstrong's Simple Carbohydrates.
Alambic Club Reprints, Nos. 1 to 16.
Desch's Metallography.
Lowell's Evolution of Worlds.
Lockyer's Meteoric Hypothesis.
Wheeler's Ants.
Crawshay's Birds of Tierra del Fuego.
Clarke's Illustrations of Cyperaceæ.
Hall's Fertilisers and Manures.
Hall's The Soil.
Willis' Agriculture in the Tropics.
Ellis' Outlines of Bacteriology.
Green's History of Botany, 1860-1900.
Church's Types of Floral Mechanism.
Boyce's Mosquito or Man.
Horn Expedition to Central Australia, 4 vols.
Frazer's Totemism of Exogamy, 4 vols.
Budge's Book of the Dead, 3 vols.
Maiden's Life of Sir Joseph Banks.
Marshall's Consciousness.
Nicholson's A Project of Empire.
Lodge's Survival of Man.
Jones' Working Faith of the Social Reformer.
Whetham's Family and the Nation.
Greenwood's Physiology of the Special Senses.
Smith's The Stone Ages.
Ball's The Earth's Beginnings.
Blake's Sixty Years in New Zealand.
Ladd's Knowledge, Life, and Reality.
Maspero's New Light on Ancient Egypt.
Loeb's Comparative Physiology of the Brain.
Idding's Igneous Rocks, Vol. 1.
Hertwig's Embryology.

AIM Ann Report 1910 to 1911

- Marks and Davis' Saturated and Superheated Steam.
Muret-Sander's Encyclopædic Dictionary of English and German, 4 vols.
Heale's New Zealand and the New Zealand Company.
Taylor's Te Ika a Maui.
G. H. Darwin's Scientific Papers, Vol. 3.
Freund's Study of Chemical Composition.
Shaw's Air Currents and Ventilation.
Campbell's Modern Electrical Theory.
Fron's Sylviculture.
Ward's Naturalism and Agnosticism, 2 vols.
Alder and Hancock's British Nudiffranchiate Mollusca, Supplementary Volume.
Allcroft's Earthworks in England.
Clark's Essentials of Economic Theory.
Beadnell's An Egyptian Oasis.
Shadwell's Industrial Efficiency.
Arrhenius' Life of the Universe, 2 vols.
Lodge's The Ether of Space.
Warming's Ecology of Plants.
White's Sikkim and Bhutan.
Hedin's Trans-Himalaya, 2 vols.
James' A Pluralistic Universe.
Minot's Age, Growth, and Death.
Soddy's Interpretation of Radium.
Beddard's A Book of Whales.
Haddon's The Study of Man.
Clinton-Baker's Illustrations of Conifers, 2 vols.
Hertz's Miscellaneous Papers.
McDougal's Social Psychology.
Mill's Siege of the South Pole.
Crooke's Select Methods in Chemical Analysis.
Ostwald's Fundamental Principles of Chemistry.
Beveridge's Employment.
Scott's Fossil Botany.
Mellor's Higher Mathematics.
Wanhill and Beveridge's Handbook of Practical Hygiene.
Harker's History of Igneous Rocks.
Joly's Radioactivity and Geology.
Darwin's Foundations of the Origin of Species.
Thomson's Conduction of Electricity Through Gases, 2nd edition.
Bateson's Mendel's Principles of Heredity.
Seward's Darwin and Modern Science.

Silvanus Thompson's Life of Lord Kelvin, 2 vols.
First and Second Appendices to Dana's Mineralogy.
Farmer's The Book of Nature, 6 vols.
Lloyd Morgan's Habit and Instinct.
United States Geological Survey Report on the Earthquake of San Francisco.

Skin of *Apteryx Haasti* :—The Tourist Department, per L. Birks.
Apteryx Mantelli :—L. Birks.
Skin of Long-tailed Cuckoo (*Endynamis taitensis*) :—J. Reilly.
Maori Skull :—Dr. Hallin.
White Crane (*Ardea egretta*) :—Purchased.
New Zealand Lamprey :—A. V. Pittman.
Sucking Fish (*Echineis remora*) :—W. Hodgson.
Kathetostoma laeue :—A. Goodwin.
Pipe Fish :—F. Bell.
Nautilinus punctatus :—J. Poananga.
Sea-snake (*Hydrus platurus*) stranded near Helensville :—E. Smith.
New Zealand Frog, several specimens :—A. C. Jameson.
Nautilinus punctatus :—Allan Bell.
Gymnoplectron longipes :—R. H. Wynyard.
Large Centipede :—A. Morrison ; E. Marchant.
Citarchus Hookeri :—V. J. Blake.
Hepialus virescens ; perfect insect, chrysalis, and larva :—W. Satchell.
Large Collection of Butterflies from South Africa and other countries :—H. Dobbie.
Stalked Barnacles from Raglan :—T. B. Hill.
Three Robber Crabs from Caroline Island, near Tahiti :—J. L. Young.
Palinurus sp., from Great Barrier Island :—H. Osborne.
Moa Bones from Kawhia :—A. W. Babbage.
Siliceous Mineral from Hape Creek, Thames :—W. R. Martin.
Porcellanites from Mt. Eden :—G. Winstone.
Teeth of *Carcharodon Megalodon* and other Fossils :—G. A. Clark.
Encrustation from a Bore-hole at Kotuku, Westland :—Miss Peterson.
Six Ammonites from Marikopa, Kawhia :—S. H. Carr.
Curious Outgrowth from a Kauri Tree :—R. Cranwell.
Samples of Taranaki Petroleum and bye-products :—Taranaki Petroleum Co.
Several Bone Hafts of Fish-hooks ; Stone Hafts of Fish-hooks ; Bone Back of Pawa-shell Hook ; various other Maori articles :—Mrs. Hallyburton Johnstone.
Carved Human Figure in Pumice, found at Paengaroa, Bay of Plenty :—W. J. Benner.
Three Fishing Weights found near Flat Head, Mongonui :—W. Garton.

AIM Ann Report 1910 to 1911

Stone Hafts for Fish-hooks, found near Oeo, Taranaki:—Miss Fanny Good.
Large and Highly-polished Stone Axe, found near Ngaruawahia:—H. Tarver.
Carved Feather Box, found in a cave at Mangapohue, Kawhia:—P. Ross.
Small Greenstone Chisel and Ear-drop; Maori Grindstone: J. Anderson, Omaha.

Handle of Kumara Spade (?), found in a swamp at Otorohanga:—F. Hull.
Several Pumice-stone Carvings, found at the north end of Lake Rotoehu:—V. J. Blake.

Remarkable Stone Carving:—Purchased.

Old Maori Ko and Wooden Implement found in the bed of a stream at Paeroa:—J. Hubbard.

Three Maori Spades and Two Kumara Weeders, found in a ditch at Whangaparapara:—D. N. McMillan.

Two Wooden Flax Beaters; Carved Fork, Carved Step of Spade:—G. Graham.
Stone Anchor for a Canoe:—R. Buddle.

Carved Human Figure in Pumice, found at Onewhero, Waikato:—J. Griffin.
Large River Canoe from Thames River:—Purchased.

Stone Axes:—R. Condron.

Stone Bowl, Grindstone, Stone Axes; Two Bone Toggles; One Aurei:—C. Curtis.

Cast of Carved Funnel:—A. Hamilton, Dominion Museum.

Seventeen Articles in Greenstone, ordinary stone, and bone:—Purchased.

Large Greenstone Matau:—Purchased.

Bowl and Dish from Inca Burial Ground, near Lake Titicaca; Human Foetus, found in same grave; Charm, Spoon, and other articles found in the same district; Ancient Spanish Dagger and Axe found near Mollendo, Peru; 13 silver coins:—James Banner.

Series of over 500 Articles, mostly from Japan, but a few from China; including Bronzes, Swords, Daggers, and other articles in metal; numerous carvings in wood and ivory; many specimens of Pottery, Porcelain, and Cloisonné Work; Lacquer Work; Silks embroidered with Gold, etc., etc.:—Deposited by Mr. H. Dadley.

Australian Stone Axes; Stone Axes found in Norfolk:—G. A. Clark.

Military Buttons found in Albert Park:—C. Holland.

Model of H.M.S. Victory, made by L. R. Hardy:—Deposited by Mrs. Hardy.

List of Members

For the Year ending March 31st, 1911.

[Honorary and Life Members distinguished thus *.]

- | | |
|--------------------------------------|---|
| Aickin, G., Auckland | Cousins, H. C., Auckland |
| Aldis, M., Auckland | Craig, J. J., Auckland |
| Allison, A., Wanganui | Cranwell, R., Parnell |
| Arnold, C., Auckland | Crosher, J., Auckland |
| | Cuff, J. C., F.S.A., Auckland |
| Bagnall, L. J., Auckland | |
| Ball, W. T., Auckland | Daw, A. G., Auckland |
| Bankart, A. T., Auckland | Dearsly, H., Auckland. |
| Bartley, E., Devonport | De Clive Lowe, G. T. H., L.R.C.P., Auckland |
| *Bates, T. L., Newcastle, N.S.W. | Dettmann, Prof. H. S., Auckland |
| Batger, J., Auckland | Devereux, H. B., Waihi |
| Benjamin, E. D., Auckland | Devore, A. E. T., Auckland |
| Best, Elsdon, Wellington | Dickenson, J. C., Ponsonby |
| Birks, L., C.E., Rotorua | Douglas, W. S., Auckland |
| Brett, H., Auckland | Downard, F. N. R., Te Aroha |
| Briffault, R., M.B., Auckland | Duthie, D. W., Auckland |
| Broun, Major, F.E.S., Mt. Albert | |
| Brown, Prof. F. D., Auckland | Earl, F., Auckland |
| *Buchanan, A., Remuera | Edson, J., Devonport |
| Buddle, J. H., Auckland | Egerton, Prof. C. W., Auckland |
| Buddle, T., Auckland | Ellison, T., Papatoitoti |
| Burgess, E. W., Devonport | Ewington, F. G., Auckland |
| Burnside, W., Auckland | |
| *Burton, Colonel, London | Finch, F., Auckland |
| Bush, W. E., C.E., Auckland | Florance, R. S., Blenheim |
| Buttle, J., Auckland | *Fowlds, Hon. G., M.P., Auckland |
| | |
| Cameron, R., Auckland | Garrard, G. W., Auckland |
| *Campbell, Sir J. L., M.D., Auckland | George, G., Auckland |
| Chatfield, A. W., Auckland | Gilbert, T., Parnell |
| Cheal, P. E., Auckland | Girdler, Dr., Auckland |
| Cheeseman, T. F., F.L.S., Auckland | Goldie, D., Auckland |
| Ching, T., Remuera | Gordon, H. A., Auckland |
| Clark, A., Auckland | Gorrie, W. Auckland |
| Clark, A., M.B., Ellerslie | Graham, G., Auckland |
| Clark, A. W., Auckland | Grant, Miss J., Devonport |
| Clark, H. C., Auckland | Gray, S., Auckland |
| Clark, M. A., Auckland | Griffin, Miss E. M., Auckland |
| Clarke, E., Auckland | Grigsby, R. C., Auckland |
| Clarke, W. St. John, Auckland | Guinness, W., M.D., Devonport |
| Coates, T., Orakei | |
| Cochrane, W. S., Auckland | Haines, H., F.R.C.S., Auckland |
| Coe, J., Mt. Eden | Hall, J. W., Remuera |
| Cole, W., Mt. Eden | Hamer, W. H., C.E., Auckland |
| Combes, F. H., Remuera | Hansen, P. M., Auckland |
| Cooper, C., Auckland | Harding, A. B., Onehunga |
| Cooper, Mr. Justice, Wellington | Hazard, W. H., Auckland |
| Cottrell, A. J., Auckland | |

AIM Ann Report 1910 to 1911

Heaton, F., Auckland
Herbert, T., Parnell
Hodgson, J., Auckland
Holderness, D., Auckland
Horton, H., Auckland
Houghton, C. V., Auckland
Howden, J., Auckland
Hutchinson, G., Auckland

Inglis, R. T., B.M., Auckland

Jarman, Prof. A., Auckland
Johnson, H. D., Te Aroha
Johnstone, Hallyburton, Howick
Jones, H. W., Papakura

Kenderdine, J., Auckland
Kirker, J., Auckland
Kronfeld, G., Auckland

Lamb, S. E., M.A., Auckland
Langguth, E., Auckland
Lennox, J. M., Auckland
*Lennox, N. G., Sydney
Leys, T. W., Auckland
Lundon, J. R., Auckland

Macfarlane, T., C.E., Auckland
McGowan, Hon. J., Thames
*McMillan, C. C., Auckland
Mahoney, T., Auckland
Mair, Captain G., Rotorua
Mair, S. A. R., Rangitikei
Mair, Major W. G., Auckland
Martin, J., F.G.S., Auckland
McLean, M., Auckland
McDowell, W. C., M.D., Auckland
Metcalf, H. H., M.I.C.E., Auckland
Miller, E. V., Chelsea
Milnes, H. A. E., Auckland
Mitchelson, Hon. E., Auckland
Moore, J. E., Mt. Eden
Morgan, A. H. V., Waihi
Morgan, H. H., Northcote
Morgan, R. J., Devonport
Morton, H. B., Auckland
Moss, E. G. B., Auckland
Mulgan, E. K., Auckland
Murdoch, D. L., Auckland
Myers, A. M., M.P., Auckland

*Nathan, N. A., Auckland
Newton, G. M., Auckland
Nicholson, O., Auckland

Pabst, Dr., Auckland
Partridge, H. E., Auckland
Patterson, G. W. S., Auckland

Peacock, T., Auckland
Petrie, D., M.A., Auckland
Philson, W. W., Auckland
Player, C. E., L.R.C.P., Birkenhead
Pond, J. A., F.C.S., Auckland
Powell, F. E., Auckland
Price, E. A., Auckland
Pycroft, A. T., Auckland

Rangihiroa, Dr., M.P., Auckland
Reid, J., Auckland
Renshaw, F., Auckland
Rhodes, C., Auckland
Robertson, E., M.D., Auckland
Robertson, W. A., Auckland
Roche, H., Waihi
Rolf, W., Auckland
Rossiter, E. B., F.R.C.S., Mt. Albert

Satchell, W., Northcote
Savage, T. C., M.R.C.S.E., Auckland
Scott, Rev. D. D., Onehunga
Seegner, C., Auckland
Segar, Prof. H. W., Auckland
Shaw, H., Auckland
Simson, T., Auckland
Sinclair, A., Auckland
Smeeton, H. M., Auckland
Smith, H. G. S., Auckland
*Smith, S. P., F.R.G.S., Taranaki
Smith, W. H., Auckland
Somerville, J. M., Chelsea
Spencer, W. C. C., Auckland
Stewart, J., C.E., Auckland
Stewart, J. W., Auckland
Stewart, R. L., Auckland
Stewart, W. F., Auckland
Stopford, R., M.D., Auckland
Streeter, S. C., Auckland

Thomas, Prof. A. P. W., F.L.S.
Auckland
Tibbs, J. W., Auckland
*Tinne, H., London
Trotter, Rev. W., Epsom

Upton, J. H., Auckland
Urquhart, A. T., Karaka

Vaile, E. E., Waitotapu
Vaile, H. E., Auckland

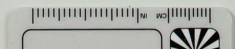
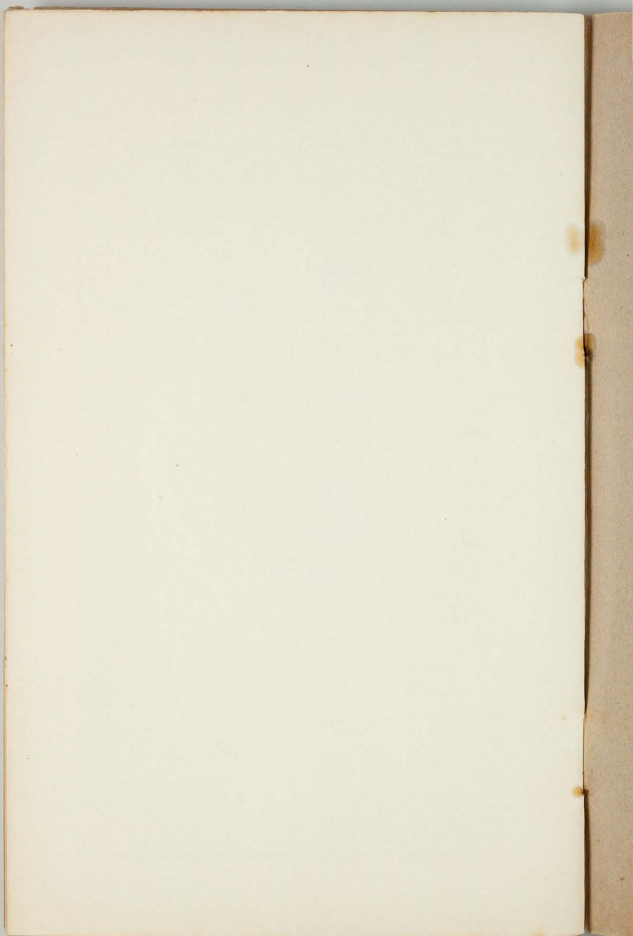
Walker, Rev. F. W., Ellerslie
Walker, S., Lake Takapuna
Walsh, Archd. P., Cambridge
Waterworth, A., Auckland
Ward, P., Auckland
Webster, J., Hokianga

Webster, Rev. W., Parnell
*Weetman, S., F.R.G.S., Epsom
Wells, T. U., Auckland
Williams, Right Rev. W. L., Bishop
of Waiaapu, Napier
Wilson, A., Parnell
Wilson, A. P., Auckland

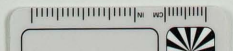
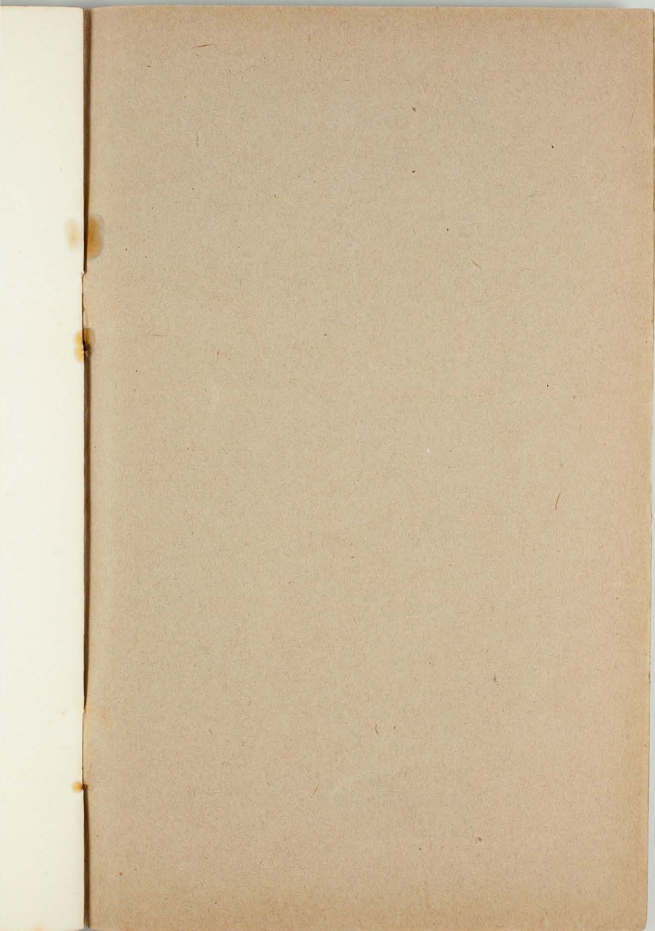
Wilson, J., Auckland
Wilson, W. R., Auckland
*Withy, E., Rotorua
Wyllie, A., C.E., Auckland
Yates, E., Auckland
Young, J. L., Auckland



AIM Ann Report
1910 to 1911



AIM Ann Report
1910 to 1911



AIM Ann Report
1910 to 1911

